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only one or two of the specialists who had previously worked in this field were still available, and [ ] they had worked in some subordinated field.

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5. The Moscow Patent Office attached great importance to these developments. 25X1

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-2-

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cause of the highly increased speed of modern gas turbines and, consequently, because of the increased centrifugal force which had been achieved since 1944, it was requested that not only the material of the blade roots, but also the fastening be able to withstand excessive bending strain. The heat resisting capacity of the material would be decisive in its value. However, no satisfactory solution to this problem and no constructive arrangements had been found. [ ] the former cooperation with the MAN Plant had been extremely advantageous, and [ ] the Heschel Plant has found no equivalent partner in East Germany to work on the mechanical problems in this field. All studies were, therefore, translated into Russian and forwarded to the plant near Moscow, mentioned above, to be checked and tested, a procedure which required both time and money.

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6. The Heschel Plant was engaged in the development of ceramic turbine blades and took only a minor part in production. Only experimental burning was done in the kilns. However, should the basic problem of producing such blades be solved, the plant would immediately be capable of a large output because available edge mills and kilns were not fully utilized. No difficulties were expected in the supply of spare parts. Machine tools were available and the plant had facilities and personnel for the production of the required parts.

1. [ ] Comment: M.A.N. - Maschinenfabrik Augsburg-Nürnberg A.G.

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2. [ ] Comment [ ] It is assumed that Plant No. 156 in Moscow is working in this field.

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